

CLAIMS

- 1 An air cooled bearing comprising means for imparting a swirl component to cooling air flowing towards the bearing.
- 2 A bearing as claimed in Claim 1 wherein the said means for imparting a swirl component comprises a vane or a plurality of vanes.
- 3 A bearing as claimed in Claim 2 wherein the said vane or vanes is/are fixed in relation to a bearing support means of the said bearing.
- 4 A bearing as claimed in Claim 2 wherein the said vane or vanes is/are rotatable with respect to a bearing support means of the said bearing.
- 5 A bearing as claimed in Claim 4 wherein the said vane or vanes is/are connected to a rotatable shaft supported by the said bearing.
- 6 A bearing as claimed in Claim 2 wherein at least one vane is fixed with respect to a bearing support means of the said bearing and at least one further vane is rotatable with respect to the said bearing support means.
- 7 A bearing as claimed in any preceding claim wherein the said bearing comprises a cage for retaining rolling elements of the said bearing and wherein the said means for imparting a swirl component to the cooling air is configured such that the swirl direction of the cooling air is substantially the same as the direction of rotation of the said bearing cage in use.
- 8 A bearing as claimed in Claim 7 wherein the said means for imparting a swirl component to the cooling air is configured such that the circumferential swirl velocity of the cooling air is substantially equal to the rotational velocity of the said bearing cage in use.

- 9 A bearing as claimed in any preceding claim wherein the said bearing comprises a total loss oil lubrication means.
- 10 A gas turbine engine comprising at least one bearing as claimed in any preceding claim.
- 11 A bearing substantially as hereinbefore described and/or with reference to the accompanying drawings.
- 12 A gas turbine engine substantially as hereinbefore described and/or with reference to the accompanying drawings.